

## MICROCHANNEL TURN DESIGN

### ABSTRACT OF THE DISCLOSURE

A microcapillary channel having two opposite sides, wherein the opposite

5 sides have different lengths over a straight portion of the channel.

A microchannel system for compensating for skewing of sample plugs as the sample plugs pass around a curved microchannel, comprising: a first microchannel having two opposite sides, wherein the opposite sides have different lengths over a straight portion of the first channel; a second microchannel having two opposite sides, wherein the opposite 10 sides have different lengths over a straight portion of the second channel; and a curved portion of microchannel disposed between, and in fluid communication with, the first and second microchannels, wherein the second sides of the first and second microchannels are disposed towards the interior of the curvature of the curved portion.

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20